

WHAT IS CLAIMED:

1. An isolated *Bacillus* delta or delta prime or tau subunit of a DNA polymerase III-type enzyme, the isolated delta or delta prime or tau subunit:
 - (i) comprising the amino acid sequence of SEQ ID NO: 178 or 180 or 182; or
 - (ii) being encoded by a nucleic acid molecule hybridizing to the complement of SEQ ID NO: 177 or 179 or 181 under hybridization conditions comprising at most about 0.9M sodium citrate buffer at a temperature of at least about 37°C.
2. The isolated *Bacillus* delta or delta prime or tau subunit according to claim 1 wherein the *Bacillus* species is *Bacillus stearothermophilus*.
3. The isolated *Bacillus* delta or delta prime or tau subunit according to claim 1 wherein the delta subunit comprises the amino acid sequence of SEQ ID NO: 178.
4. The isolated *Bacillus* delta or delta prime or tau subunit according to claim 1 wherein the delta prime subunit comprises the amino acid sequence of SEQ ID NO: 180.
5. The isolated *Bacillus* delta or delta prime or tau subunit according to claim 1 wherein the tau subunit comprises the amino acid sequence of SEQ ID NO: 182.
6. The isolated *Bacillus* delta or delta prime or tau subunit according to claim 1 wherein the delta or delta prime or tau subunit is encoded by a nucleic acid molecule that hybridizes to the complement of SEQ ID NO: 177 or 179 or 181 under hybridization conditions comprising at most about 0.9M sodium citrate buffer at a temperature of at least about 37°C.
7. The isolated *Bacillus* delta or delta prime or tau subunit according to claim 1 wherein the subunit is purified.

8. A clamp loader complex comprising at least one of the *Bacillus* delta or delta prime or tau subunits according to claim 1.

9. A clamp loader complex comprising the *Bacillus* delta, delta prime, and tau subunits according to claim 1.

10. A DNA polymerase III-type enzyme complex comprising the clamp loader according to claim 8.

11. A DNA polymerase III-type enzyme complex comprising the clamp loader according to claim 9.

12. A kit comprising:
a container that contains therein either a deoxynucleoside triphosphate or a dideoxynucleoside triphosphate; and
a container that contains therein the DNA polymerase III-type enzyme complex according to claim 10.

13. A kit comprising:
a container that contains therein either a deoxynucleoside triphosphate or a dideoxynucleoside triphosphate; and
a container that contains therein the DNA polymerase III-type enzyme complex according to claim 11.